



Drainage Services

Millbourne Living Wall Demonstration Project

**Briefing Session
July 29, 2014**



Overview

- Education session
- Fill information gaps
- Summarize input/keep you informed
- Continued input opportunities



Overview

- How did we get here?
- Why a demonstration project?
- Next steps in process





Agenda

1. What is a Living Wall?
2. How will it be built?
3. Where will it be located?
4. When will it be built?
5. Questions



1. What is a Living Wall?

A vertical barrier made of plant material and soil that provides a visual screen and a barrier to absorb sound.



Living Wall appearance



Living Wall appearance

A photograph of a well-maintained backyard. On the left, a tall, dense, green hedge runs along the edge of the property. The hedge is made of a leafy plant, possibly privet or boxwood, and has a thick, rounded appearance. To the right of the hedge is a large, green lawn. In the background, a brick house with a brown roof is visible. The house has a small wooden deck and a white railing. The sky is blue with some white clouds. The text "Living Wall appearance" is overlaid on the image in white font.

Living Wall appearance

A photograph of a backyard featuring a 'Living Wall' made of bamboo plants growing along a wooden fence. The yard is covered in green grass, with a small yellow and green inflatable ring and a black fire pit in the center. A house with a stone and brick exterior and a balcony is visible on the right. The sky is filled with white and grey clouds.

Living Wall appearance



What's it made of?

Willow shrub stands and
soil within a wooden
fence frame.





Plantations





Living Wall Attributes

- Emerging technology provides natural aesthetics with good sound absorption benefits.
- Soil core provides sound dampening while living leafy willow stands provide pleasing aesthetics.



Living Wall Advantages

- ✓ Noise absorptive
- ✓ Strong graffiti-resistance
- ✓ Natural aesthetics
- ✓ Easy to handle
- ✓ Low cost (less than concrete)
- ✓ Withstands weathering well (durable)
- ✓ Low maintenance



Living Wall Advantages

- ✓ Easy installation relative to heavier walls
- ✓ Salt-resistant
- ✓ Cold weather compatible
- ✓ Environmentally-friendly and sustainable
- ✓ Living plants 'scrub' air by consuming carbon dioxide and producing oxygen



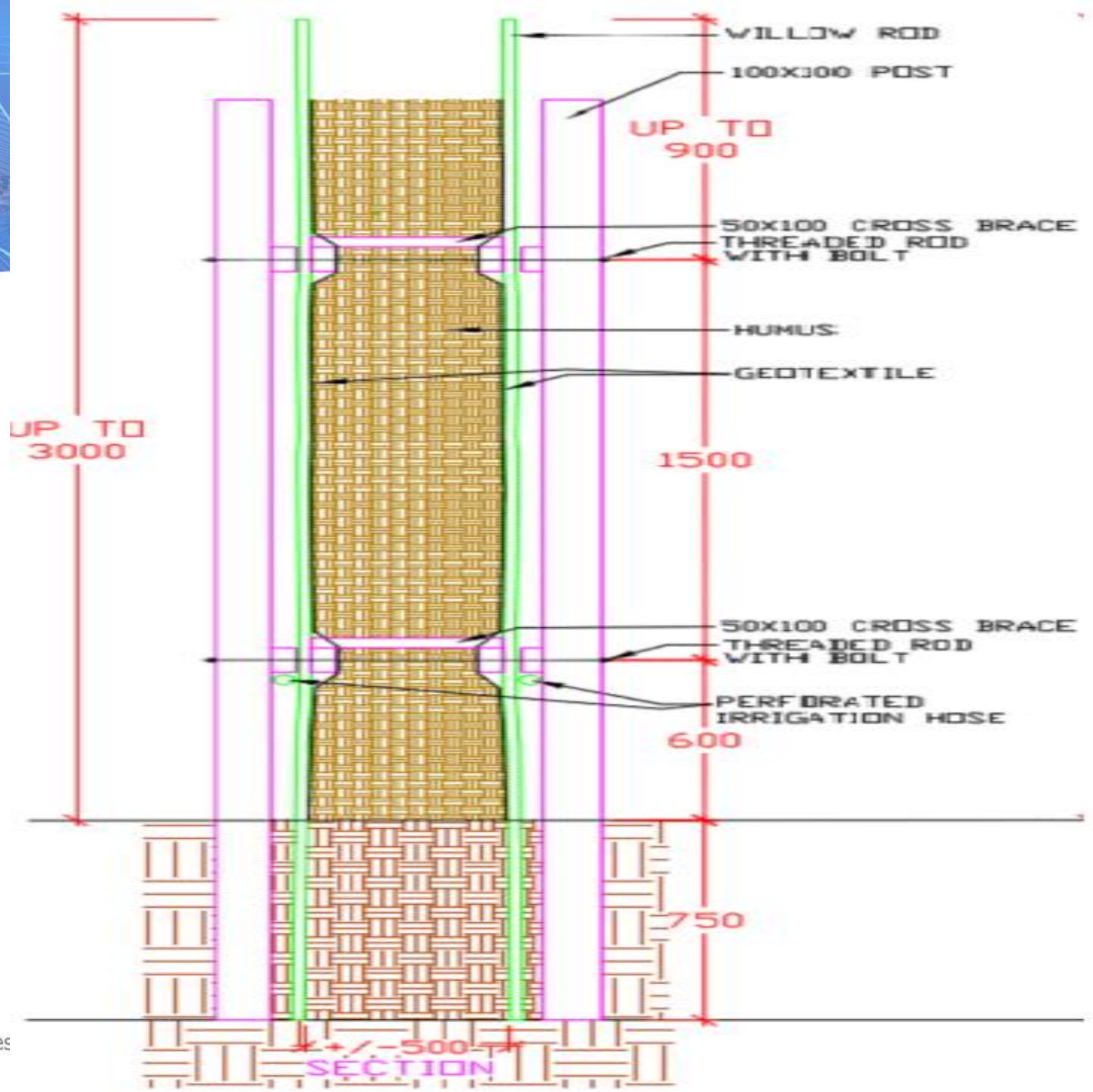
Living Wall Uncertainties

- Requires drip line during first year of growth
- Leaves drop in winter (but sound barrier benefits provided by soil core remain)
- No similar installations in Western Canada



2. How is it built?

1. A trench is dug to install fence posts.
2. Wooden framing between the posts is added.
3. Willow stands are weaved in between the framing.
4. Soil is added in the middle to provide sound absorption



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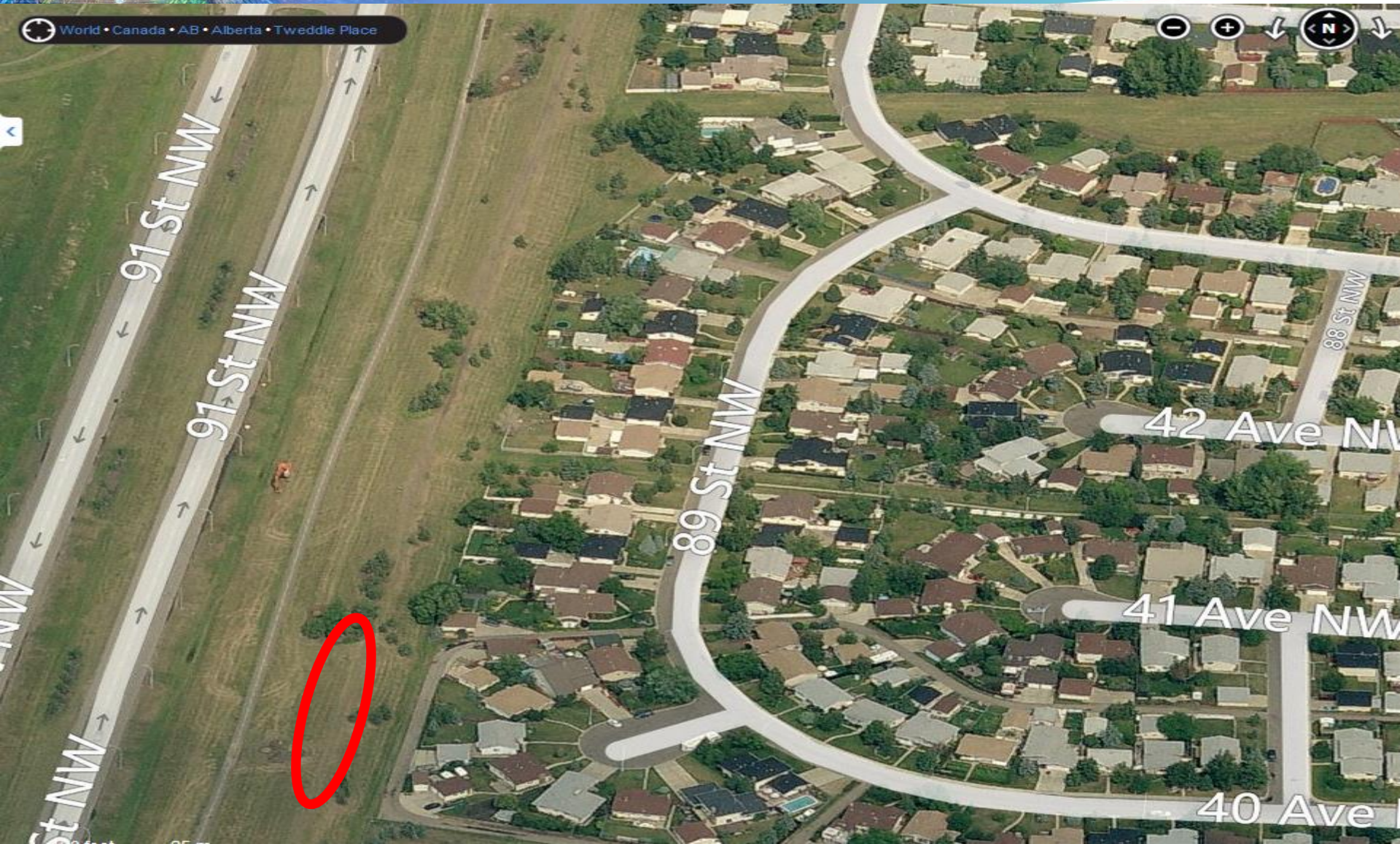


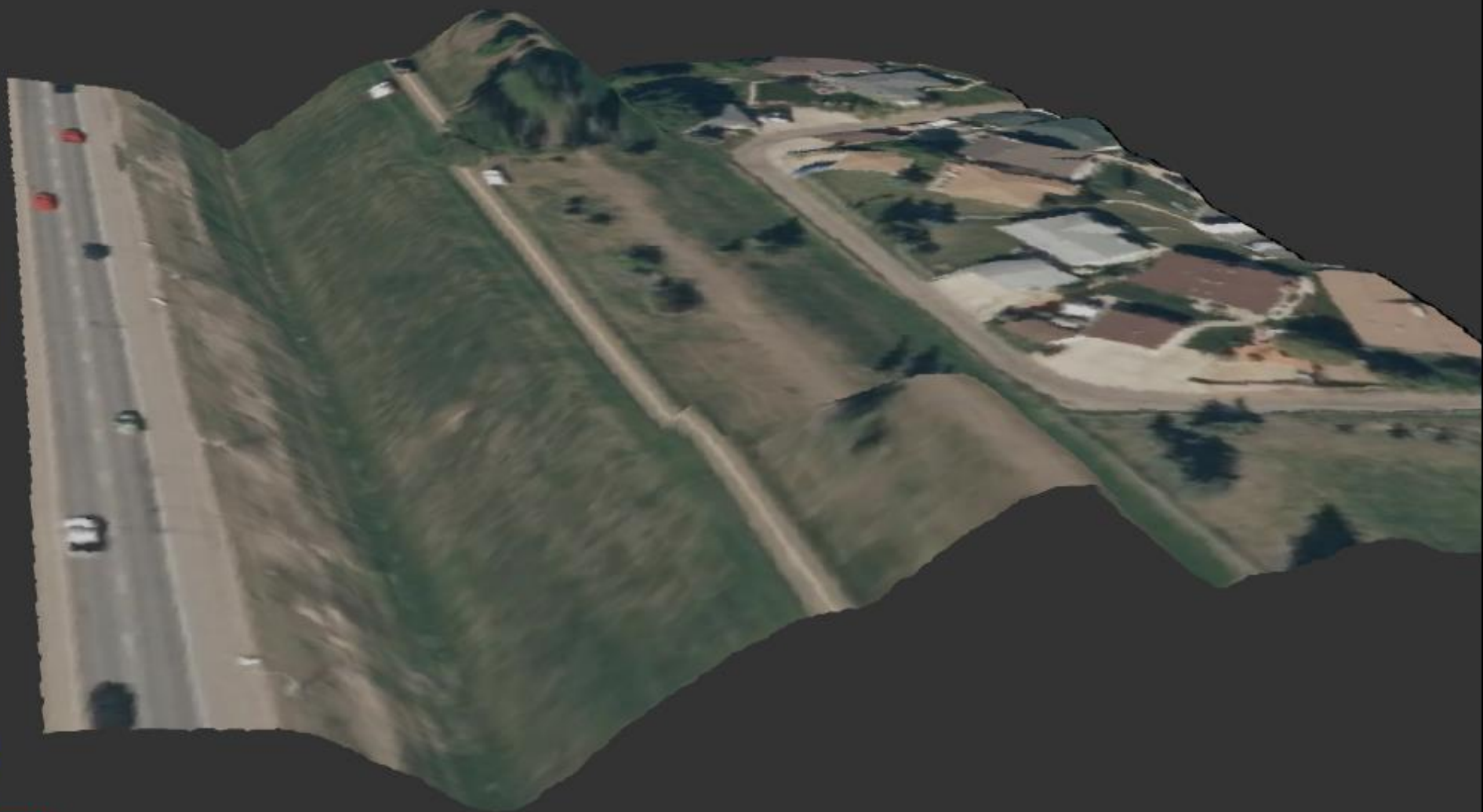


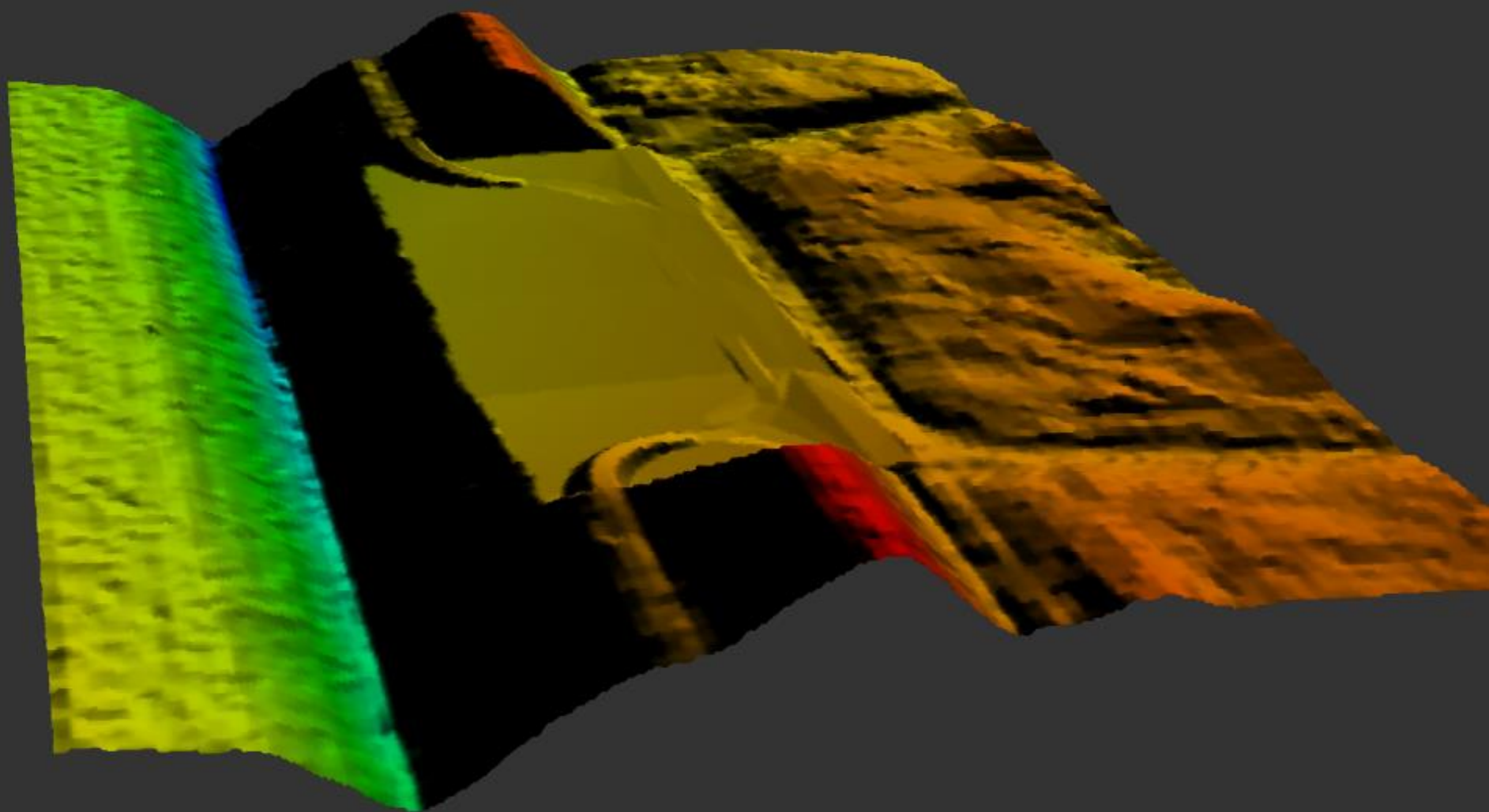




3. Where will it be located?





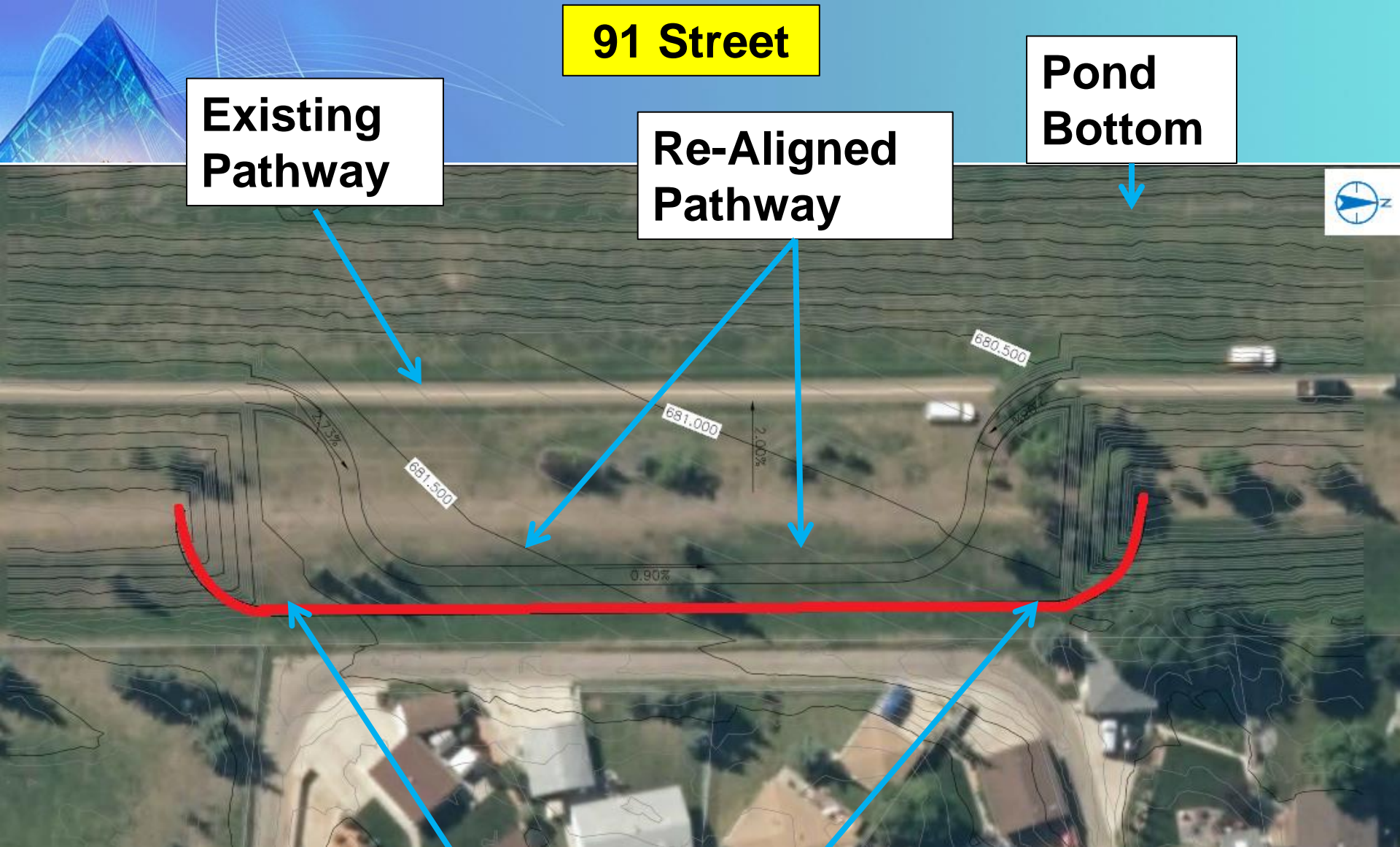


91 Street

**Existing
Pathway**

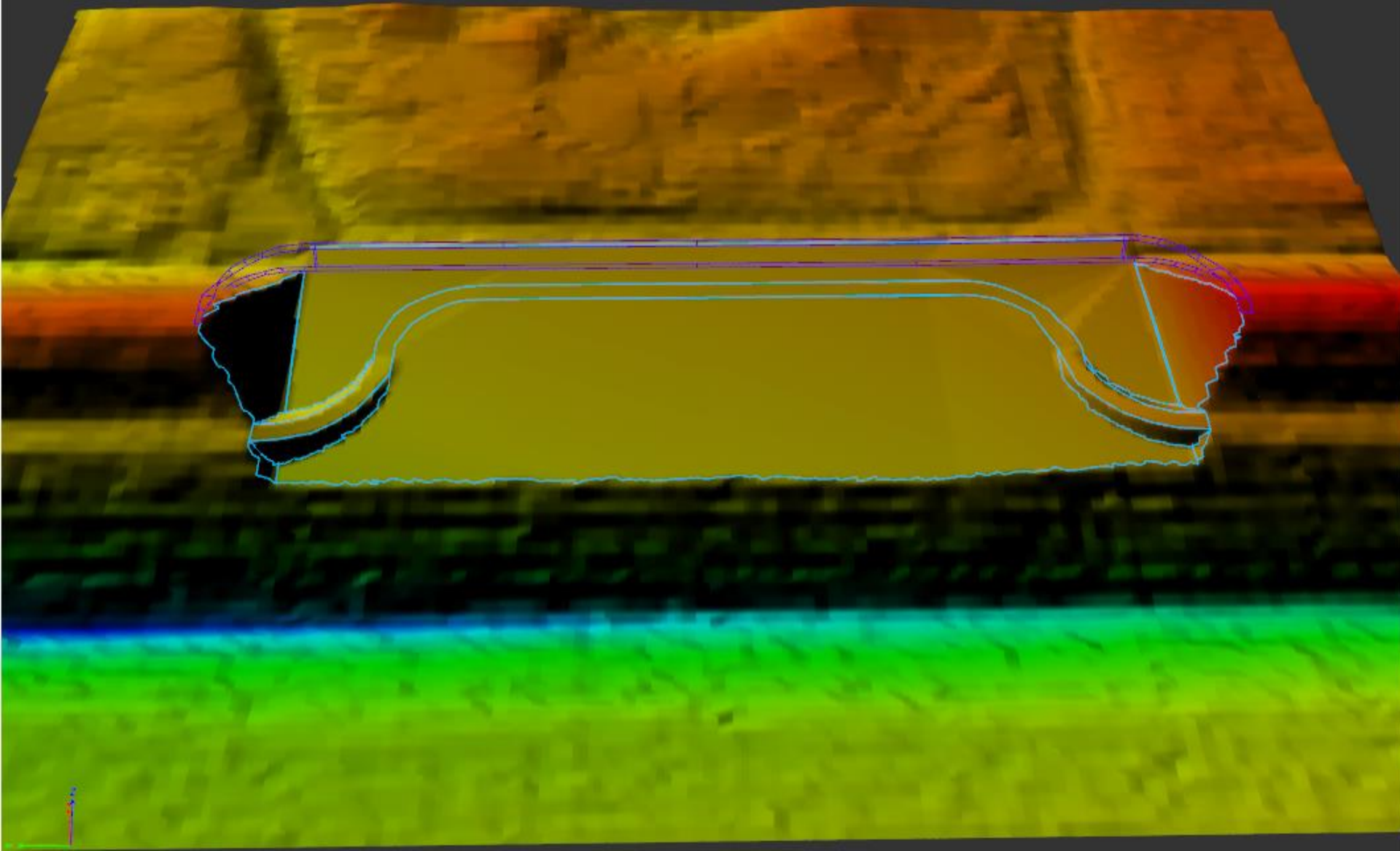
**Re-Aligned
Pathway**

**Pond
Bottom**



Living Wall

89 Street





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4. When will it be built?

Earth work moving by the contractor is expected to begin in September.

Installation of the wall is expected to begin in early October.



City of Edmonton Contact

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